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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/888,110	06/22/2001	Jagadish Bandhole	VRT0074US	7964	
	7590 02/07/2008 FEPHENSON LLP		EXAMINER		
11401 CENTUI	RY OAKS TERRACE		SHINGLES, KRISTIE D		
BLDG. H, SUIT AUSTIN, TX 7			ART UNIT PAPER NUMBER		
			2141		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	09/888,110	BANDHOLE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kristie D. Shingles	2141	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet	with the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU .136(a). In no event, however, may d will apply and will expire SIX (6) No te, cause the application to become	NICATION. r a reply be timely filed IONTHS from the mailing date of this communical ABANDONED (35 U.S.C. § 133).	
Status ·			
1)⊠ Responsive to communication(s) filed on 11/3	<u>26/07</u> .	•	
2a)⊠ This action is FINAL . 2b)□ Thi	is action is non-final.		
3) Since this application is in condition for allow	ance except for formal m	atters, prosecution as to the merits	is
closed in accordance with the practice under	Ex parte Quayle, 1935 (C.D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are withdrawing 5) Claim(s) is/are allowed. 6) Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected e drawing(s) be held in abe ction is required if the draw	yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 CFR 1.12	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bure: * See the attached detailed Office action for a list	nts have been received. nts have been received in ority documents have be au (PCT Rule 17.2(a)).	n Application No en received in this National Stage	
•			
Attachment(s)	·		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		w Summary (PTO-413) No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		of Informal Patent Application	

Application/Control Number:

09/888,110

Art Unit: 2141

Response to Amendment
No claims have been amended.

Claims 1-24 are pending examination.

Response to Arguments

- I. Applicant's arguments filed 11/26/2007, with respect to the rejections of claims 1-24 under 35 U.S.C. 103 have been fully considered but are not persuasive.
 - A. Applicant argues that the cited combination of prior art of record, *VMware* and *Raja et al*, fail to teach multiple user interfaces or sharing a resource between multiple user interfaces.

Examiner respectfully disagrees. VMware clearly teaches users sharing resources between multiple interfaces of virtual machines for establishing a virtual environment by allowing multiple operating systems to run concurrently using the same hardware resources; which allows for the virtual machines to share files and devices (page 1 paragraphs 2-4, page 4 paragraph 2, page 5 paragraphs 1-8). Applicant's arguments are therefore unpersuasive.

B. Applicant argues that the cited combination of prior art of record, *VMware* and *Raja et al*, fail to teach "transferring information generated by execution of the application to the second user interface in response to a command to collaborate".

Examiner respectfully disagrees. VMware clearly teaches allowing multiple operating system environments to run concurrently using the same hardware resources wherein virtual machines are allowed to share files (page 1 paragraphs 2-3, Figure 1, page 4 paragraph 2, page 5 paragraphs 1, 7 and 8), which clearly implies the transferring of information from programs running in one virtual machine environment to another virtual machine environment. Thus users of the system are capable of engaging in transactions in different virtual machines

wherein any changes implemented may be saved or erased to the virtual machine, further provisioning the transfer of information in the virtual environment (page 6 paragraph 5). Applicant's arguments are therefore unpersuasive.

C. Applicant argues that the cited combination of prior art of record, *VMware* and *Raja et al*, fail to teach "transmitting information about the execution of a process from one computer or virtual machine to another".

Examiner respectfully disagrees. As stated above, *VMware* clearly teaches allowing multiple operating system environments to run concurrently using the same hardware resources wherein virtual machines are allowed to share files (*page 1 paragraphs 2-3, Figure 1*, *page 4 paragraph 2, page 5 paragraphs 1, 7 and 8*). However, *VMware* further teaches the transferring data of an "entire computing environment" between computers (*page 2 paragraph 7*). Applicant's arguments are therefore unpersuasive and the rejection under the prior art of record is maintained.

Claim Rejections - 35 USC § 103

- II. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- III. <u>Claims 1 4</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over *Raja et al* (US 7,058,947) in view of *VMware* (Technical White Paper February 1999).

09/888,110 Art Unit: 2141

a. **Per claim 1**, *Raja et al* teach a method for collaborative computing in a system the method comprising:

- allocating a dynamic computing environment using a first user interface, wherein
 the dynamic computing environment comprises at least one resource of a plurality
 of resources, and the dynamic computing environment is allocated by virtue of
 allocating the at least one resource (Abstract, col.2 lines 43-48, col.5 lines 7-19—
 provision for allocation of memory and applications using a user interface);
- executing an application on the at least one resource using either the first user interface or the second user interface (col. 3 lines 18-29, col. 7 lines 23-63);
- transferring information generated by execution of the application to the first user interface (col.11 line 19-col.12 line 18, col.13 line 64-col.14 line 66); and
- transferring the information generated by execution of the application to the second user interface (col.26 line 64-col.27 line 42, col.27 line 46-col.28 line 15—provision for transferring application data).

Raja et al fail to explicitly teach sharing the at least one resource between the first user interface and the second user interface and transferring the information generated by execution of the application to the second user interface in response to a command to collaborate with the second user interface, wherein the first user interface and the second user interface are at least in part provided by software executing on respective first and second devices separate from the dynamic computing environment. However, VMware teaches users sharing resources between multiple interfaces of virtual machines for establishing a virtual environment (VMware: page 1 paragraphs 2-4, page 4 paragraph 2, page 5 paragraphs 1-8).

Art Unit: 2141

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Raja et al* and *VMware* to allocate and configure resources shared between users and capable of providing interfaces for the users to interact with and manipulate the resources.

- b. Per claim 2, Raja et al and VMware teach the method of claim 1, further comprising modifying the information in the first user interface by interacting with the at least one shared resource through the first user interface (VMware: page 5 paragraph 1, page 6 paragraphs 5-6).
- c. **Per claim 3,** Raja et al and VMware teach the method of claim 1, further comprising modifying the information in the second user interface by interacting with the at least one shared resource through the second user interface (VMware: page 5 paragraphs 5 and 8, page 6 paragraph 5).
- d. **Per claim 4,** Raja et al and VMware teach the method of claim 1, further comprising switching control to modify the information between the first and second user interface (VMware: page 5 paragraphs 5 and 8, page 6 paragraph 5-8).
- IV. <u>Claims 5-14 and 19-21</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over *VMware* (Technical White Paper February 1999) in further view of *McNally et al* (US 6,259,448).
- a. **Per claim 5,** *VMware* teaches a method for providing sharing of a software process among multiple users, the method comprising:

Application/Control Number:

09/888,110 Art Unit: 2141

- allocating a distributed computing environment by virtue of allocating a first user computer and a second user computer (page 1 paragraphs 3-4, page 2 paragraphs 5-10, page 6 paragraph 2);
- using a resource computer to transmit information about execution of the process to the first user computer, wherein the resource computer executes the process in a first location, and a first user operates the first user computer in a second location (page 4 paragraphs 1-6, page 5 paragraphs 7-8); and
- using the resource computer to transmit information about the execution of the process to the second user computer, wherein a second user operates the second user computer in a third location, and the first user computer and the second user computer comprise the distributed computing environment (page 4 paragraphs 1-6, page 5 paragraphs 7-8).

Although *VMware* does teach the provision for users and resources existing in a virtual environment via virtual machines; *McNally et al* explicitly teaches the implementation of a distributed computing environment comprising a given set of machines providing and acting as allocateable resources wherein the distributed computing environment is deployed form a user interface (*col.2 lines 1-65*).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *VMware* with *McNally et al* for the purpose of provisioning initiating and deploying a distributed computing environment from different locations using a user interface to a allocate, deallocate resources and transmit control information to the devices of the distributed computing environment. Implementing virtual environments via virtual machine resources is a well-known technique in the art used to provide users with remote access to resources and other users.

09/888,110 Art Unit: 2141

- b. Claim 18 contains limitations that are substantially similar to claims 1 and 5; and is therefore rejected under the same basis.
- c. **Per claim 6,** *VMware* and *McNally et al* teach the method of claim 5, further comprising controlling the resource computer with the first user computer (*VMware: page 5 paragraphs 4-8; McNally et al: col.2 lines 30-40*).
- d. **Per claim 7,** *VMware* and *McNally et al* teach the method of claim 5, the method further comprising controlling the resource computer with the second user computer (*VMware: page 5 paragraphs 4-8, page 6 paragraphs 4-7; McNally et al: col.2 lines 30-40*).
- e. **Per claim 8,** *VMware* and *McNally et al* teach the method of claim 5, further teaches the method further comprising switching control of the resource computer between the first and second user computers (*VMware: page 6 paragraphs 6-7*).
- f. Claim 11 is substantially equivalent to claim 8 and is therefore rejected under the same basis.
- g. **Per claim 9,** *VMware* and *McNally et al* teach the method of claim 5, further comprising modifying the information using the first user computer (*VMware: page 5 paragraphs 5 and 8, page 6 paragraph 5-8*).
- h. **Per claim 10,** VMware and McNally et al teach the method of claim 5, further comprising modifying the information using the second user computer (VMware: page 5 paragraphs 5 and 8, page 6 paragraph 5-8).

09/888,110 Art Unit: 2141

- i. **Per claim 12,** VMware and McNally et al teach the method of claim 5, further teaches wherein the shared software process is an operating system (VMware: page 1 paragraph 2, page 2 paragraphs 6-8, page 3 paragraph 1, page 6 paragraph 6; McNally et al: col.6 lines 9-11).
- j. **Per claim 13,** *VMware* and *McNally et al* teach the method of claim 5, wherein the shared software process is a user interface controller (*VMware*: page 6 paragraph 8).
- k. Claim 14 is substantially similar to claim 13 and is therefore rejected under the same basis.
- l. **Per claim 19,** VMware and McNally et al teach the system of claim 18, wherein the dynamic computing environment is remotely located from the second and third location (VMware: page 4 paragraphs 1-6, page 5 paragraphs 7-8).
- m. Claim 20 is substantially similar to claim 19 and is therefore rejected under the same basis.
- n. Claim 21 is substantially similar to claims 8 and 13 and is therefore rejected under the same basis.
- V. <u>Claims 15-17 and 22-24</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over *VMware* (Technical White Paper February 1999) in view of *McNally et al* (US 6,259,448) in further view of *Ansberry et al* (US 5,887,170).
- a. **Per claim 16,** *VMware* and *McNally et al* teach the method of claim of 5 as applied above, yet fails to explicitly teach the method wherein the system is used in technical support. However, *Ansberry et al* disclose the usability of the system extended to collaborative and non-collaborative distributed computing environments where a conferencing session may be

manipulated, thus the examples demonstrate technical support and teamwork situations which may also be implemented in training or usability studies (col.7 line 66-col.8 line 31). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of VMware and McNally et al with Ansberry et al for the purpose of implementing the system in training, technical support or usability studies environments since these the collaborative and cooperative nature of system would be ideal in such environments linking together users and devices across a network.

b. Claims 15, 17 and 22-24 are substantially similar to claim 16 and are therefore rejected under the same basis.

Conclusion

- VI. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Paiz (7050813), Cheng (6396509), Da Palma et al (6874020), Bugnion et al (6075938), Bandhole et al (20020049803).
- VII. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

Application/Control Number:

09/888,110

Art Unit: 2141

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

VIII. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kristie D. Shingles whose telephone number is 571-272-3888.

The examiner can normally be reached on Monday 8:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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applications is available through Private PAIR only. For more information about the PAIR

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Kristie D. Shingles

Examiner

Art Unit 2141

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Page 10

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